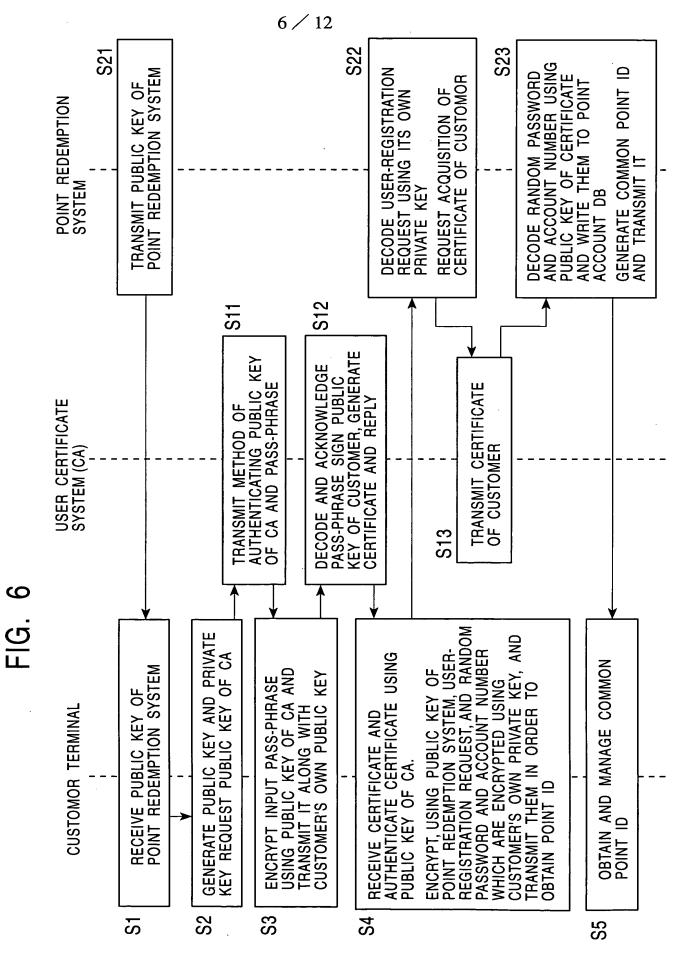


COMMUNICA-TION UNIT 49 52 STORAGE UNIT 47 SPEAKER 51 INPUT/OUTPUT INTERFACE RAM DISPLAY 48 MICRO-PHONE 20 42 ROM KEYBOARD 46 CPU MOUSE 45 **⊘**I

φ ٥ 3 41-ELECTRONIC ACCOUNT BOOK DB 65 DRIVE ~63 ~61 64 တ COMMUNICATION CONTROL DVICE MEMORY \22 FINANCIAL GATEWAY FINANCIAL NETWORK POINT ACCOUNT DB DISK I/O CPU COMMUNI-CATION CONTROL DVICE 62 OPEN NETWORK

~94 ~95 ~96 Ô Ô **S**I-DRIVE 84 6 ~92 83 MEMORY POINT ACCOUNT DB DISK I/O CPU ~82 OPEN NETWORK



The stands of th

FIG. 7

CUSTOMER PUBLIC KEY K_{P1} CERTIFICATE

CUSTOMER PUBLIC KEY K_{P1}

ENCRYPTION USING PRIVATE KEY K_{S3}

OF USER CERTIFICATE SYSTEM

HASH VALUE OF
CUSTOMER PUBLIC KEY K_{P1}

FIG. 8

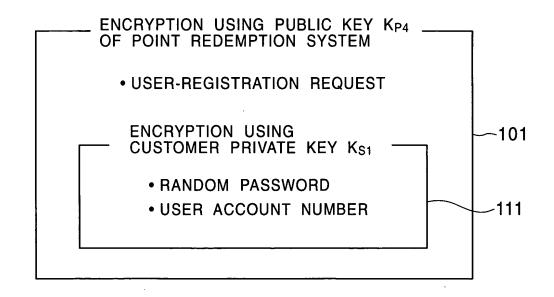


FIG. 9

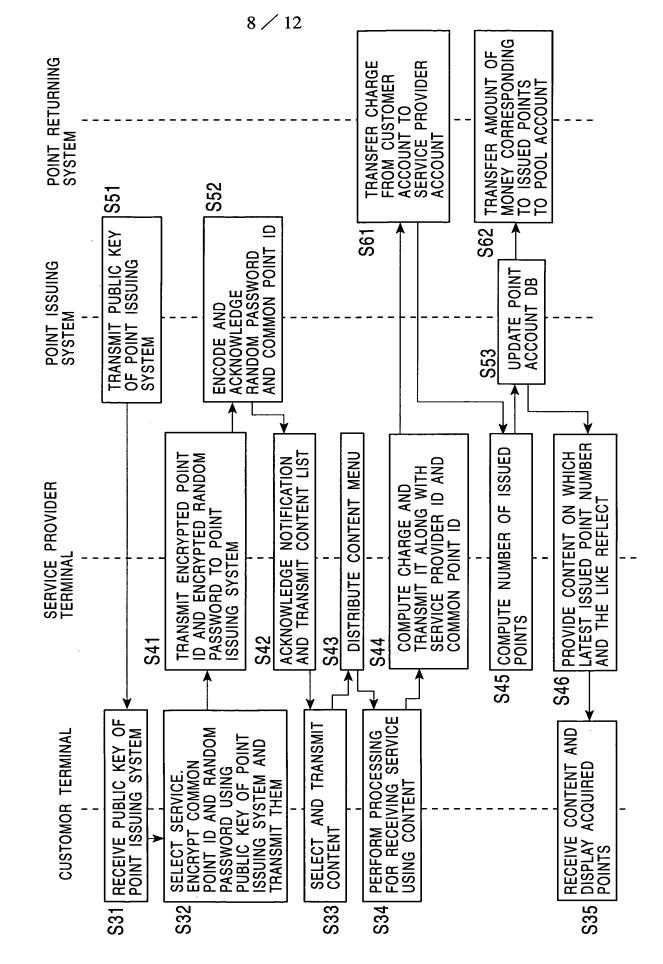


FIG. 10A

SERVICE PROVIDER ID	FINANCIAL INSTITUTION ID	ACCOUNT NUMBER
0001	0003	5671234

:1G. 10B

REDEMPTION RATE	8.0	
SERVICE PROVIDER ID	1000	
EXPIRY DATE	20000731	
DATE OF ACQUISITION EXPIRING DATE	19990801 20000731	
NUMBER OF ACQUIRED POINTS	200	
ACCOUNT NUMBER	1234567	
FINANCIAL INSTITUTION ID	0005	
PASS- WORD	XXXXXX	
COMMON POINT ID	100001001 XXXXXX 0002	

FIG. 11

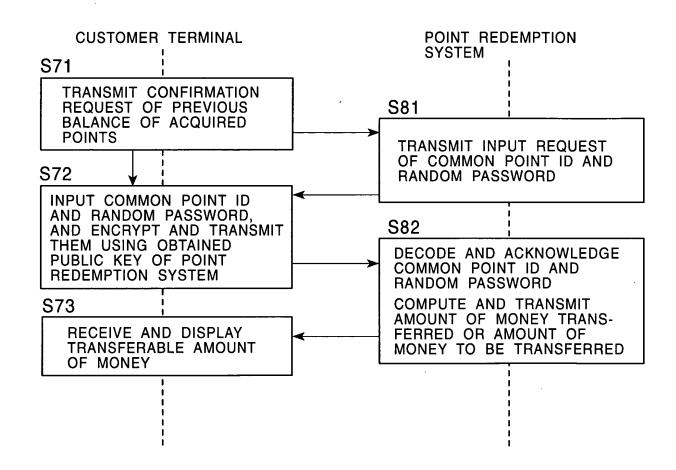


FIG. 12

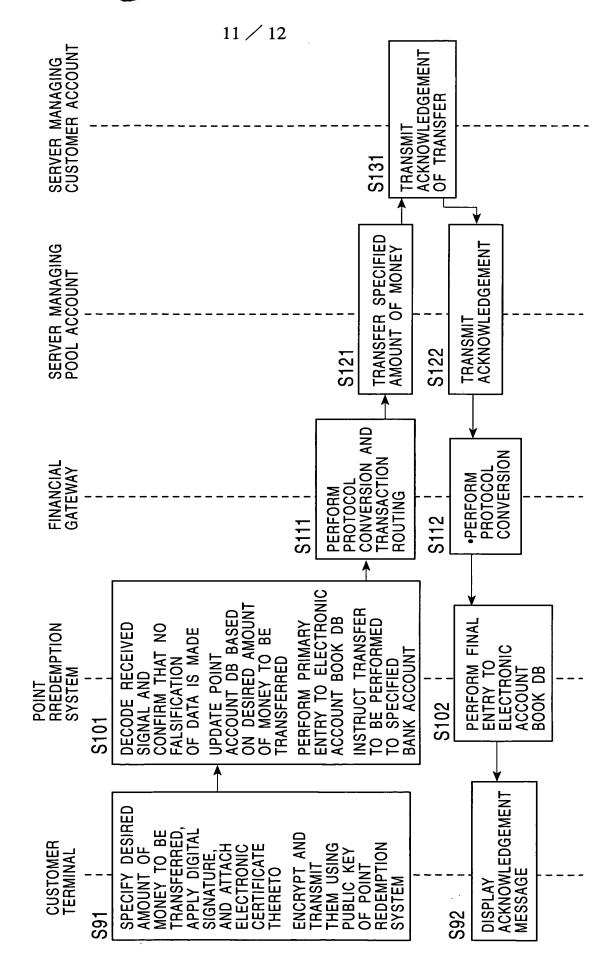


FIG. 13

COMMON POINT ID	CUMULATIVE POINTS BEFORE TRANSFER	TRANSFER DATE	POINTS TRANS- FERRED	REMAINING POINTS
100001001	16500	19990830	15000	1500

FIG. 14

PRIMARY ENTRY DATE	FINAL ENTRY DATE	COMMON POINT ID	POINTS TRANS- FERRED	AMOUNT OF MONEY TRANS- FERRED	REDEMPTION RATE
19990529	19990530	100001013	10000	8000	0.8
19990530	19990531	100001021	5000	4000	0.8